

Aerospace Sealants Quick Reference Guide

PRC® Seal Caps and
Standard PRC® Nut-Plate Caps



At PPG, we strive to develop innovative new technologies that make the application of our products easier and more efficient.

Dome-sealing of aircraft fasteners can be costly and time-consuming. Fasteners can be hard to reach or even see, and there is significant variation in sealant application from fastener-to-fastener.

PRC® SEAL CAPS are the aerospace industry's easiest way to seal fasteners. *PRC Seal Caps* are delivered as pre-cured, pre-formed sealant in a specified size and shape customized to your application. To apply, wet sealant is extruded to the inside of the cap and placed onto the top of the fastener, allowing excess sealant in the cap to squeeze out around the base.

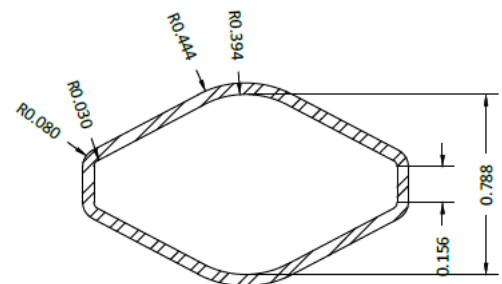
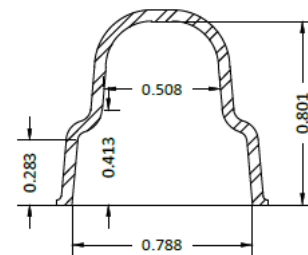
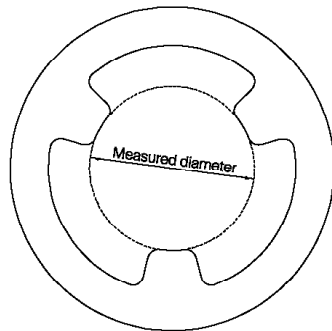
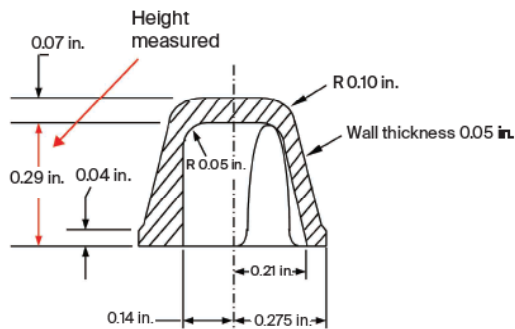
For the most efficient method of sealing fasteners, use *PRC Seal Caps* that are pre-mixed and frozen (PMF). PMF caps are pre-filled and then frozen at one of our application support centers, then delivered directly to the customer's location. Simply thaw the caps for several minutes and place on your fasteners. No additional wet sealant is necessary.

With *PRC Seal Caps*, application times are reduced by up to 90% and seals are perfect every time. The following tables provide the measurements of many of our current seal cap configurations and can be used to help determine a size that fits your application. For an on-fastener fit check, please contact your account manager or local application support center.

Standard *PRC Nut Plate Caps* are also available both in regular pre-formed and PMF versions. A variety of specialty sizes are listed in this guide.

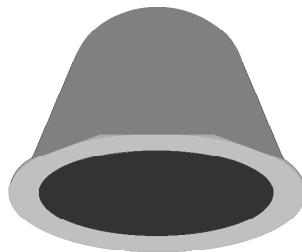


Standard cap size 6



Example of *PRC Seal Cap* (left) and Standard *PRC Nut Plate Cap* (right) drawing dimensions

Part designation	Seal cap type	Diameter		Height		Wall thickness	
		in	cm	in	cm	in	cm
029	DOME	1.150	2.921	0.840	2.134	0.100	0.254
030	DOME	2.100	5.334	1.730	4.394	0.100	0.254
031	DOME	0.930	2.362	1.119	2.842	0.110	0.279
033	DOME	0.626	1.589	0.460	1.168	0.100	0.254
034	DOME	0.661	1.679	0.536	1.362	0.100	0.254
035	DOME	0.771	1.958	0.590	1.499	0.100	0.254
038	DOME	0.475	1.207	0.850	2.159	0.050	0.127
062	DOME	1.130	2.870	1.420	3.607	0.100	0.254
063	DOME	1.245	3.162	1.550	3.937	0.100	0.254
064	DOME	1.420	3.607	1.735	4.407	0.100	0.254
065	DOME	1.630	4.140	2.000	5.080	0.110	0.279
066	DOME	1.820	4.623	2.245	5.702	0.120	0.305
067	DOME	2.060	5.232	1.960	4.978	0.130	0.330
068	DOME	2.320	5.893	2.070	5.258	0.140	0.356
069	DOME	0.950	2.413	0.650	1.651	0.120	0.305
070	DOME	1.035	2.629	0.800	2.032	0.100	0.254
071	DOME	1.150	2.921	0.840	2.134	0.100	0.254
072	DOME	1.255	3.188	0.850	2.159	0.120	0.305
073	DOME	1.425	3.620	1.000	2.540	0.130	0.330
074	DOME	1.633	4.148	1.090	2.739	0.130	0.330
075	DOME	2.070	5.258	1.330	3.378	0.130	0.330
076	DOME	2.335	5.931	1.595	4.051	0.150	0.381
077	DOME	0.731	1.857	0.336	0.853	0.125	0.318
078	DOME	0.820	2.083	0.353	0.897	0.125	0.318
079	DOME	1.010	2.565	0.445	1.130	0.120	0.305
080	DOME	1.108	2.814	0.580	1.473	0.125	0.318
081	DOME	1.210	3.073	0.520	1.321	0.120	0.305
082	DOME	1.398	3.551	0.642	1.631	0.120	0.305
083	DOME	1.601	4.067	0.720	1.829	0.130	0.330
084	DOME	1.795	4.559	0.800	2.032	0.130	0.330



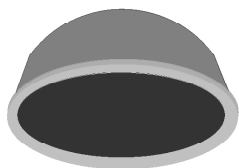
Example of a dome type seal cap

Part designation	Seal cap type	Diameter		Height		Wall thickness	
		in	cm	in	cm	in	cm
O18	SINGLE-TIERED	0.840	2.134	0.480	1.219	0.070	0.178
O19	SINGLE-TIERED	0.800	2.032	0.360	0.914	0.060	0.152
O22	SINGLE-TIERED	0.810	2.057	0.570	1.448	0.060	0.152
O27	SINGLE-TIERED	0.720	1.829	0.480	1.219	0.060	0.152
B06	SINGLE-TIERED	0.459	1.116	0.612	1.555	0.100	0.254
B07	SINGLE-TIERED	0.567	1.440	0.678	1.722	0.100	0.254
B08	SINGLE-TIERED	0.667	1.694	0.772	1.961	0.100	0.254
B09	SINGLE-TIERED	0.767	1.948	0.818	2.078	0.100	0.254
B10	SINGLE-TIERED	0.880	2.235	0.892	2.266	0.100	0.254
B11	SINGLE-TIERED	0.972	2.469	0.943	2.395	0.100	0.254
B12	SINGLE-TIERED	0.495	1.257	0.612	1.555	0.100	0.254
B13	SINGLE-TIERED	0.625	1.588	0.678	1.722	0.100	0.254
B14	SINGLE-TIERED	0.770	1.956	0.772	1.961	0.100	0.254
B15	SINGLE-TIERED	0.900	2.286	0.818	2.078	0.100	0.254
B16	SINGLE-TIERED	0.908	2.306	0.892	2.266	0.100	0.254
B17	SINGLE-TIERED	1.015	2.578	0.943	2.395	0.100	0.254
B21	SINGLE-TIERED	0.628	1.595	0.549	1.395	0.100	0.254
B22	SINGLE-TIERED	0.738	1.875	0.589	1.496	0.100	0.254
B23	SINGLE-TIERED	0.843	2.141	0.669	1.699	0.100	0.254
B24	SINGLE-TIERED	0.900	2.286	0.769	1.953	0.100	0.254
B25	SINGLE-TIERED	0.972	2.469	0.869	2.207	0.100	0.254
B26	SINGLE-TIERED	1.020	2.591	0.955	2.426	0.100	0.254
B27	SINGLE-TIERED	1.240	3.150	1.200	3.048	0.100	0.254
B28	SINGLE-TIERED	1.457	3.701	1.339	3.401	0.100	0.254
B29	SINGLE-TIERED	1.655	4.204	1.484	3.769	0.100	0.254

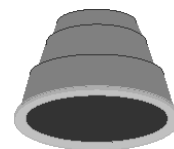


Example of a single-tiered seal cap

Part designation	Seal cap type	Diameter		Height		Wall thickness	
		in	cm	in	cm	in	cm
015	FLAT	0.400	1.016	0.140	0.356	0.050	0.127
028	FLAT	0.340	0.864	0.100	0.254	0.035	0.089
036	FLAT	0.465	1.181	0.193	0.490	0.100	0.254
050	FLAT	0.407	1.034	0.136	0.345	0.110	0.279
051	FLAT	0.507	1.288	0.150	0.381	0.125	0.318
052	FLAT	0.629	1.600	0.190	0.483	0.150	0.381
053	FLAT	0.745	1.892	0.225	0.572	0.130	0.330
054	FLAT	0.880	2.235	0.250	0.635	0.120	0.305
055	FLAT	1.000	2.540	0.280	0.711	0.120	0.305
H00	FLAT	0.378	0.960	0.127	0.323	0.100	0.254
H01	FLAT	0.442	1.123	0.134	0.340	0.100	0.254
H02	FLAT	0.542	1.377	0.150	0.381	0.100	0.254
H03	FLAT	0.664	1.687	0.172	0.437	0.100	0.254
H04	FLAT	0.780	1.981	0.200	0.508	0.100	0.254
H05	FLAT	1.003	2.548	0.288	0.732	0.100	0.254
H06	FLAT	1.035	2.629	0.248	0.630	0.100	0.254
H07	FLAT	1.200	3.048	0.385	0.978	0.100	0.254
H08	FLAT	0.820	2.083	0.573	1.455	0.100	0.254
H09	FLAT	1.008	2.560	0.695	1.765	0.100	0.254
H10	FLAT	1.300	3.302	0.858	2.179	0.100	0.254
H11	FLAT	1.695	4.305	0.947	2.405	0.100	0.254
H12	FLAT	0.508	1.290	0.245	0.622	0.100	0.254
H13	FLAT	0.445	1.130	0.518	0.518	0.100	0.254



Example of a flat-topped seal cap



Example of a multi-tiered seal cap

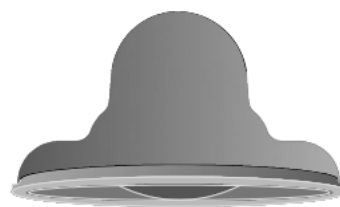
Part designation	Seal cap type	Diameter		Height		Wall thickness	
		in	cm	in	cm	in	cm
013	MULTI-TIERED	0.840	2.134	0.760	1.930	0.060	0.152
016	MULTI-TIERED	0.520	1.321	0.450	1.143	0.050	0.127
020	MULTI-TIERED	0.620	1.575	0.520	1.321	0.050	0.127
021	MULTI-TIERED	0.620	1.575	0.620	1.575	0.050	0.127
023	MULTI-TIERED	0.830	2.108	0.690	1.753	0.060	0.152
026	MULTI-TIERED	0.820	2.083	0.620	1.575	0.060	0.152

Part designation	Seal cap type	Diameter		Height		Wall thickness	
		in	cm	in	cm	in	cm
037	CONE	0.288	0.732	0.865	2.197	0.050	0.127
056	CONE	0.404	1.026	0.560	1.422	0.120	0.305
057	CONE	0.520	1.320	0.677	1.720	0.100	0.254
058	CONE	0.620	1.580	0.764	1.941	0.135	0.343
059	CONE	0.684	1.737	0.800	2.032	0.115	0.292
060	CONE	0.930	2.362	1.119	2.842	0.110	0.279
061	CONE	1.023	2.598	1.330	3.378	0.120	0.305



Example of a cone type seal cap

Part designation	Seal cap type	Length		Width		Height	
		in	cm	in	cm	in	cm
601	NUT PLATE	0.570	1.448	1.000	2.540	0.680	1.727
602	NUT PLATE	0.788	2.002	1.326	3.368	0.801	2.035
603	NUT PLATE	0.720	1.829	1.140	2.896	0.650	1.651
604	NUT PLATE	0.710	1.803	1.470	3.734	0.910	2.311
605	NUT PLATE	0.610	1.549	1.280	3.251	0.730	1.854
606	NUT PLATE	0.480	1.219	1.250	3.175	0.570	1.448
607	NUT PLATE	0.430	1.092	1.080	2.743	0.530	1.346
608	NUT PLATE	0.430	1.092	0.840	2.134	0.550	1.397
609	NUT PLATE	0.490	1.245	0.970	2.464	0.590	1.499



Example of a standard nut seal cap

*Note: Not all cap sizes are immediately available for full-scale production.
Please see your account manager to discuss options and availability.*

Part Designation	Seal cap type	Diameter		Height		Wall thickness	
		in	cm	in	cm	in	cm
006	PLATEAU	0.350	0.889	0.290	0.737	0.050	0.127
008	PLATEAU	0.460	1.168	0.300	0.762	0.050	0.127
009	PLATEAU	0.400	1.016	0.140	0.356	0.075	0.191
010	PLATEAU	0.560	1.422	0.370	0.940	0.050	0.127
012	PLATEAU	0.540	1.372	0.420	1.067	0.060	0.152
014	PLATEAU	0.390	0.991	0.350	0.889	0.050	0.127
025	PLATEAU	0.390	0.991	0.400	1.106	0.050	0.127
032	PLATEAU	0.490	1.245	0.459	1.166	0.110	0.279
B01	PLATEAU	0.461	1.168	0.494	1.255	0.100	0.254
B02	PLATEAU	0.567	1.440	0.546	1.387	0.100	0.254
B03	PLATEAU	0.667	1.694	0.578	1.468	0.100	0.254
B04	PLATEAU	0.760	1.930	0.626	1.590	0.100	0.254
B05	PLATEAU	0.880	2.235	0.704	1.788	0.100	0.254
B19	PLATEAU	0.417	1.059	0.459	1.166	0.100	0.254
B20	PLATEAU	0.522	1.326	0.489	1.242	0.100	0.254
B30	PLATEAU	0.881	2.238	0.884	2.245	0.100	0.254
B31	PLATEAU	1.000	2.540	0.965	2.451	0.100	0.254
B32	PLATEAU	1.119	2.842	1.098	2.789	0.100	0.254
B33	PLATEAU	1.242	3.155	1.138	2.891	0.100	0.254
B34	PLATEAU	1.483	3.767	1.328	3.373	0.100	0.254
B35	PLATEAU	1.718	4.364	1.484	3.769	0.100	0.254



Example of a plateau type seal cap

For the PPG application support center nearest you, please visit our website at www.ppgaerospace.com

All recommendations, statements, and technical data contained herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. User shall rely on his own information and tests to determine suitability of the product for the intended use and assumes all risks and liability resulting from his use of the product. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of this manufacturer which proves to be defective. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss, or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements other than those contained in a written agreement signed by an officer of the manufacturer shall not be binding upon the manufacturer or seller.

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Issued: 07/17
Supersedes: 05/17
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